Event

MPTS AJET NFR 4101 – NFR 4102 T-45

Mission

NIGHT FORMATION

1.5 HOURS/X

ORM

NFR 4101-02

- **OPERATIONAL REQUIREMENTS / LIMITATIONS**
  - **CREW REST/ CREW DAY / WORK WEEK**
  - **WARM-UP ELIGIBILITY**
  - **PREVIOUS FLIGHT COMPLETE?**
  - **IP CURRENCY**
  - **READ AND INITIAL**

- **HUMAN FACTORS**
  - **LIFE STRESSORS / EXTERNAL FACTORS/ PERSONAL PROBLEMS**
  - **MEDICAL STATUS**
    - **CREW DAY**
    - **CREW REST**
    - **NOURISHMENT**
    - **HYDRATION**

- **HAZARDS AND CONTROLS**
  - **ROUTINE**
  - **WEATHER**
    - **CURRENT OBSERVATIONS AND FORECASTS**
    - **CROSSWINDS**
    - **FUEL CONSIDERATIONS**

TTO

NFR 4101-02

- **WHO WILL CALL A TTO?**

- **WHAT SITUATIONS WILL THE TTO BE CALLED?**
  - **SAFETY**
  - **CONFUSION**
  - **MISUNDERSTANDING**

- **IP RESPONSIBILITIES**
  - **RECOGNIZE THE NEED FOR A TTO**
  - **EXPLANATION / INSTRUCTION AS NECESSARY**
  - **DOCUMENTATION ON ATF**

- **WHEN AND HOW WILL TRAINING RESUME?**

SSR/DISCUSS ITEMS

NFR 4101-02

- **SPECIAL SYLLABUS REQUIRMENTS:**
  - **NONE**

- **PREREQUISITES:**
  - **NFR 2101**

- **DISCUSS ITEMS:**

  NFR 4101
  - **NATOPS/SOP/EP QOD, LANDING PATTERN, FORMATION SAFETY, EMERGENCIES, AND NIGHT LEAD.**

  NFR 4102
  - **NATOPS/SOP/EP QOD, NORDO LEAD CHANGE, AND TOTAL ELECTRICAL FAILURE.**

SYLLABUS NOTES

NFR 4101-02

A. **THESE EVENTS WILL BE FLOWN FROM THE FRONT COCKPIT.**

B. **NIGHT FLIGHTS SHALL TAKE OFF NO EARLIER THAN 30 MINUTES AFTER OFFICIAL SUNSET.**

C. **ONE SECTION APPROACH TO A TOUCH-AND-GO/REJOIN SHALL BE FLOWN IN THIS BLOCK**

D. **AT LEAST ONE SECTION BREAK MUST BE FLOWN IN THIS BLOCK.**

SYLLABUS NOTES

NFR 4101-02

E. THE FOLLOWING MANEUVERS WILL BE FLOWN ON EACH FLIGHT:

- **TACAN RENDEZVOUS 2**
- **BREAKUP/CV RENDEZVOUS ON NFR 4101 4**
- **BREAKUP/CV RENDEZVOUS ON NFR 4102 3**
- **RUNNING RENDEZVOUS AT ALTITUDE**
- **CROSSUNDERS**
- **PARADE**
- **NIGHT LEAD CHANGE**
- **SECTION APPR (MAY BE SIMULATED AT ALT)**
- **T+G REJOIN OR SECTION MISSED APPROACH**
- **SECTION BREAK (WX PERMITTING)**
- **FIELD CARRIER LANDING (S)**

ADMIN (CARD)

NFR 4101-02

- **A/C – ATC C/S – CREW**
- **BRIEF / WALK / TAKEOFF / LAND TIMES**
- **ATC CLEARANCE / DD-175**
- **FUEL PLAN/LADDER**
- **LINE / T/O / ABORT / RPM**
- **COMM PLAN**
- **NAV PLAN**

ADMIN

NFR 4101-02

- **LAUNCH**
  - **WEATHER / NOTAMS / TFR / BASH**
  - **PREFLIGHT / START / TAXI**
  - **ITO**
  - **SWAPPING OF CONTROLS**
  - **ENROUTE PROCEDURES**
  - **RADALT USAGE**

- **RTB**
  - **RECOVERY**
  - **DIVERTS**

CONDUCT

NFR 4101-02

- **TIMS RESUME REVIEW**
- **PRACTICE:**
  - **CHECKLISTS/COMM/GROUND OPS**
  - **TAKEOFF/DEPARTURE/FLIGHT ADMIN**
  - **DEPARTURE**
  - **NIGHT TACAN RENDEZVOUS**
  - **PARADE**
  - **CROSSUNDER**
  - **NIGHT LEAD CHANGE**
  - **NIGHT BREAKUP/CV RENDEZVOUS**
  - **NIGHT UNDERRUN**
  - **NIGHT RUNNING RENDEZVOUS**
  - **SECTION APPROACH**
  - **SECTION MISSED APPROACH**
  - **TOUCH-AND-GO/REJOIN**
  - **DESCENT/FIELD ENTRY**
  - **SECTION BREAK**
  - **VFR LANDING PATTERN**
  - **LANDING/TOUCH-AND-GO**

BLOCK MIF

NFR 4101-02

CTS REF	MANEUVER	NFR4102
1	General Knowledge/Procedures	4+
2	Emergency Procedures	3+
3	Headwork/Situational Awareness	3+
4	Basic Airwork	4+
5	Mission Planning/Briefing/ Debriefing	4+
6	Communications	4+
7	Ground Operations	4+
8	Flight Admin	4+
10	Takeoff	4+
11	Departure	4+
32	Night TACAN Rendezvous	3+
32	Parade	3+
32	Crossunder	3+
32	Night Lead Change	3+
32	Night Breakup/CV Rendezvous	3+
32	Night Underrun	3
32	Night Running Rendezvous	3+
33	Section Approach	3+
33	Section Missed Approach	3+
33	Touch-and-Go/Rejoin	3+
13	Descent/Field Entry	4
32	Section Break	3+
22	VFR Landing Pattern	4+
23	Landing/Touch-and-Go	3+

NFR 4101-02

COORDINATION

(ALL AIRCREW)

COORDINATION

NFR 4101-02

ADMIN

- ORM, TTO
- WX, NOTAMS
- TFR, BASH
- KNEEBOARD CARD REVIEW
- START, MARSHAL, TAXI, T/O, RNDV
- RTB

TACADMIN

- ALPHA CHECK

COORDINATION

NFR 4101-02

- **MISSION:**
  - CHECKLISTS/COMM/GROUND OPS
  - TAKEOFF/DEPARTURE/FLIGHT ADMIN
  - TAKEOFF
  - DEPARTURE
  - NIGHT TACAN RENDEZVOUS
  - PARADE
  - CROSSUNDER
  - NIGHT LEAD CHANGE
  - NIGHT BREAKUP/CV RENDEZVOUS
  - NIGHT UNDERRUN
  - NIGHT RUNNING RENDEZVOUS
  - SECTION APPROACH
  - SECTION MISSED APPROACH
  - TOUCH-AND-GO/REJOIN
  - DESCENT/FIELD ENTRY
  - SECTION BREAK
  - VFR LANDING PATTERN
  - LANDING/TOUCH-AND-GO

Emergencies

NFR 4101-02

- **AIRCRAFT FALLOUT**
- **CLEAR ENGINE PROCEDURE**
- **ABORTED TAKEOFF**
- **RWY DEP / LOSS OF DIRECTIONAL CONTROL**
- **SYSTEM FAILURES/ EPs / CRM**
- **BIRD STRIKE/ MIDAIR**
- **RADIO/ ICS FAILURE**
- **LOSS OF NAVAIDS / LOST PLANE**
- **INADVERTENT IMC / LOST SIGHT / LCLS**
- **DISORIENTATION / VERTIGO**
- **HYPOXIA**
- **EJECTION (HIGH / LOW / GROUND)**
- **SAR / ON SCENE COMMANDER**
- **DIVERT(S) / BINGO FUEL TO DIVERT**